Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0554 Walnut Grove

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|------|------------|--------------------------|-----------------|
| Unit No. 01 Sacramento River | Left | 1.13 | 10/31/2018 10/31/2018 | David Julian |

| LM Start | | Rating ** | Α | Issue No. | | 3 | |
|------------------------|-------------------------------|-----------------|-----------|-------------|--------------|-------------|---|
| LM End | | Issue Type + | Ma | Location * | | | |
| Category Earthen Levee | | | GPS La | atituc | de/Longitude | | |
| Calegory | | | | Start | | End | |
| Item | Flood Preparedness & Training | | | | 0 | | 0 |
| item | | | | | 0 | | 0 |
| DWR ID | DWR_RD0 | 554_01_f _ 201 | 4_3 | | | | |
| | | Comn | nent Coc | le | | | |
| | | | | | | | |
| | | | _ | | | | |
| | | Inspecto | or Comm | ent | | | |
| The distric past. | t is prepare | ed to partner v | with neig | hboring Dis | strict | s as in the | |
| | | | | | | | |

No Photos

| LM Start | | Rating ** | Α | Issue No. | | 35 | | |
|--------------------------|--|----------------|----------|------------------------|---|-----|---|--|
| LM End | | Issue Type + | Ma | Location * | | | | |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | | |
| Operations & Maintenance | | | | 0 | | 0 | | |
| пеш | Manuals | | | | 0 | | 0 | |
| DWR ID | DWR_RD0 | 554_01_f _ 201 | 4_35 | | | | | |
| | | Comn | nent Cod | de | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | Inspector Comment | | | | | | | |
| The distric | The district has the O&M Manual on hand. | | | | | | | |

No Photos

| LM Otant | | Rating ** | Α | Issue No. | | 36 | |
|------------------------|----------------------|----------------|------------|------------|--------------|----|---|
| LM Start | | Rating | Α | 13306 110. | | 30 | |
| LM End | | Issue Type + | Ma | Location * | | | |
| Category Earthen Levee | | | GPS La | atitud | le/Longitude | | |
| | | | Start | | End | | |
| Item | Emergency Supplies & | | | | 0 | | 0 |
| Equipment | | | | 0 | | 0 | |
| DWR ID | DWR_RD0 | 554_01_f _ 201 | 4_36 | | | | |
| | | Comn | nent Cod | le | | | |
| | | | | | | | |
| | | | | | | | |
| | Inspector Comment | | | | | | |
| The distric | t shares w | ith neighborin | g district | , RD 551. | | | |
| | | | | | | | |
| | | | | | | | |

No Photos

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Reclamation District No. 0554 Walnut Grove

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|------|------------|--------------------------|-----------------|
| Unit No. 01 Sacramento River | Left | 1.13 | 10/31/2018 10/31/2018 | David Julian |

| LM Start | 0.02 | Rating ** | U | Issue No. | | 31 |
|----------------------------------|-----------|--------------|-------|------------------------|---------------|---------------|
| LM End | 0.17 | Issue Type + | Ма | Location * | Location * WS | |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | |
| Calegory | | | Start | | End | |
| Item | Vegetatio | n | | 38.2494 | 49° | 38.247375° |
| item | | | | -121.5100 | 17° | -121.509990 ° |
| DWR ID DWR_RD0554_01_f _ 2016_31 | | | | | | |

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Remove/reduce wild growth on the waterside to 20 feet from the crown.



Looking downstream waterside levee slope from levee mile 0.08-0.30.

| LM Start | 0.10 | Rating ** | М | Issue No. | | 11 | | | | |
|----------|---------------|-----------------|------|------------|------|------------------------|---|--|--|--|
| LM End | 0.10 | Issue Type + Ma | | Location * | | WS | | | | |
| Catagony | Earthen Levee | | | | | GPS Latitude/Longitude | | | | |
| Calegory | Category | | | | | End | | | | |
| Item | Erosion / I | Bank Caving | | 38.2482 | 62° | 38.248262 | 0 | | | |
| пеш | | | | -121.5099 | 01 ° | -121.509901 | 0 | | | |
| DWR ID | DWR_RD0 | 554_01_s _ 201 | 4_11 | | | | | | | |

Comment Code

E1: Note and monitor erosion site.

Inspector Comment

This is not a new erosion site, repairs are needed. One tree has fallen into the Sac River at the erosion site. This site can be seen better from the river by boat. The wild grapes blocks the view from the waterside shoulder looking down the slope. Rated as M because it is an oversized levee section.

Photo 1 of 1 : FA_2018_RD0554_176_11_20180925_00001.jpg



RD 554 Waterside levee slope erosion into the bank, the wild vegetation growth blocks the view.

| LM Start | 0.24 | Rating ** | М | Issue No. | | 28 | | |
|----------------------------------|--------------|--------------|------------------------|-------------|-----|-------------|---|--|
| LM End | 0.35 | Issue Type + | Ма | Location * | | WS | | |
| Category Earthen Levee | | | GPS Latitude/Longitude | | | | | |
| | | | Start | | End | | | |
| Item | Vegetatio | n | | 38.246473 ° | | 38.244993 | 0 | |
| пеш | item | | | -121.5105 | 09° | -121.511538 | 0 | |
| DWR ID DWR_RD0554_01_f _ 2017_28 | | | | | | | | |
| | Comment Code | | | | | | | |

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Remove/reduce wild growth on the waterside to 20 feet from the crown.

No Photos

| * Location | ** Rating | | + Issue Type |
|-------------------------------------|--------------------------|---|-----------------------------------|
| LS : Land Side N/A : Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiancy |
| WS: Water Side | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence |
| CR · Crown | U · Unaccentable | A/W · Acceptable but Monitor & Maintain | En : Enforcement |

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Reclamation District No. 0554 Walnut Grove

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|------|------------|--------------------------|-----------------|
| Unit No. 01 Sacramento River | Left | 1.13 | 10/31/2018 10/31/2018 | David Julian |

| LM Start | 0.26 | Rating ** | М | Issue No. | 24 | | | |
|----------------------------------|--------------|--------------|------------------------|------------|------|--------------|--|--|
| LM End | 0.36 | Issue Type + | Ma | Location * | WS | | | |
| Category Supplemental | | | GPS Latitude/Longitude | | | | | |
| Category | | | | Start | | End | | |
| Item | | CE Erosion S | Survey, | 38.2462 | 22 ° | 38.245017° | | |
| пеш | DRAFT | | | -121.5108 | 78° | -121.511740° | | |
| DWR ID DWR_RD0554_01_f _ 2018_24 | | | | | | | | |
| | Comment Code | | | | | | | |

Inspector Comment

2017 Site ID: SAC 27.0 L

Status: Eroding

2017 Field Notes: Minor new erosion at toe.

Site History: 2009 - Tension cracks on road on top of levee. Erosion into the levee slope and mass failure. 2013 - Short vertical sections at bank toe.

| LM Start | 0.26 | Rating ** | М | Issue No. | 24 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End | 0.36 | Issue Type + | Ma | Location * | WS |

Photo 1 of 2: FA_2018_RD0554_176_24_20181105_00050.jpg



USACE 2013 Photo #1

Photo 2 of 2: FA_2018_RD0554_176_24_20181105_00051.jpg



USACE 2013 Photo #2

| LM Start | 0.32 | Rating ** | U | Issue No. | 13 | | | |
|--|-----------------------|----------------|-------------|------------------------|--------------|------------|--|--|
| LM End | 0.32 | Issue Type + | Ma | Location * | LS | | | |
| Catagon/ Earthen Levee | | | | GPS Latitude/Longitude | | | | |
| Category | | | Start | | End | | | |
| ltom | Erosion / Bank Caving | | | 38.245389° | | 38.245389° | | |
| Item | | | -121.511085 | | -121.511085° | | | |
| DWR ID | DWR_RD0 | 554_01_s _ 201 | 4_13 | | | | | |
| | | Comn | nent Cod | de | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | | | | |
| | | | | | | | | |
| | | Inspecto | or Comm | ent | | | | |

Inspector Comment

This erosion isn't repaired to date. Large bush growing in eroded gully. Needs repairing.

Photo 1 of 3: FA_2018_RD0554_176_13_20180925_00002.jpg



This erosion along the landside levee slope is not new, it was reported two years ago.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

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|------------------------------|------|------------|--------------------------|-----------------|
| Unit No. 01 Sacramento River | Left | 1.13 | 10/31/2018 10/31/2018 | David Julian |

| LM Start | 0.32 | Rating ** | U | Issue No. | | 13 (cont) | | |
|------------------------|---------------------------|--------------|----|------------------------|------|--------------|--|--|
| LM End | 0.32 | Issue Type + | Ма | Location * | | LS | | |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | | |
| Item | Erosion / Bank Caving | | | 38.245389° | | 38.245389° | | |
| пеш | | | | -121.5110 | 85 ° | -121.511085° | | |
| DWR ID | DWR_RD0554_01_s _ 2014_13 | | | | | | | |
| | Comment Code | | | | | | | |

E2: Schedule repair of erosion site prior to the next inspection.

Inspector Comment

This erosion isn't repaired to date. Large bush growing in eroded gully. Needs repairing.

| LM Start | 0.32 | Rating ** | U | Issue No. | 13 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End | 0.32 | Issue Type + | Ма | Location * | LS |



This erosion site along the landside slope levee 0.32 has been reported and has not been repaired.

Photo 3 of 3: FA_2018_RD0554_176_13_20180925_00004.jpg



This erosion is not repaired to date. Large bush growing in eroded gully.

Needs repairing.

| 0.45 | Rating ** | М | Issue No. | 32 | | | |
|------------------------|---------------------------|--|---|---|--|--|--|
| 0.49 | Issue Type + | Ma | Location * | WS | | | |
| Category Earthen Levee | | | GPS Latitude/Longitude | | | | |
| Category | | Start | | End | | | |
| Vegetatio | n | | 38.243818° | | 38.243389 | | |
| | | | | | -121.512919 | | |
| DWR_RD0 | 554_01_f _ 201 | 7_32 | | | | | |
| Comment Code | | | | | | | |
| | 0.49 Earthen L Vegetation | 0.49 Issue Type + Earthen Levee Vegetation DWR_RD0554_01_f _ 201 | 0.49 Issue Type + Ma Earthen Levee Vegetation DWR_RD0554_01_f _ 2017_32 | 0.49 Issue Type + Ma Location * Earthen Levee GPS Larren Start Vegetation 38.24381 -121.51245 DWR_RD0554_01_f _ 2017_32 2017_32 | 0.49 Issue Type + Ma Location * Earthen Levee GPS Latitud Start Start Vegetation 38.243818 ° -121.512459 ° DWR_RD0554_01_f _ 2017_32 | | |

 $\ensuremath{\text{V2}}$: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Waterside vegetation should be cleared to 20 feet from crown for inspection and access.



Waterside vegetation should be cleared to 20 feet from crown for inspection and access.

* Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Maintenance Deficiancy

C: Corrected Ob: Design & System Obsolescence

U: Unacceptable A: Acceptable but Monitor & Maintain

** Rating

A: Acceptable N: Not Inspected/Rated C: Corrected Ob: Design & System Obsolescence

En: Enforcement

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| Unit No. 01 Sacramento River | Left | 1.13 | 10/31/2018 10/31/2018 | David Julian |

| LM Start | 0.58 | Rating ** | U | Issue No. | 25 | | |
|----------------------------------|--------------|-----------------|----------|---------------|-------|--------------|--|
| LM End | 0.58 | Issue Type + | Ma | Location * | LS | | |
| Earthen Levee | | | | GPS La | titud | e/Longitude | |
| Category | | Start | | End | | | |
| Item | Trim / Thi | n Trees | | 38.242268° | | 38.242268 ° | |
| пеш | | | | -121.513802 ° | | -121.513802° | |
| DWR ID DWR_RD0554_01_f _ 2018_25 | | | | | | | |
| | | Comn | nent Cod | de | | | |
| Γ2 : Thin t | rees to allo | w visibility of | the grou | nd and roor | n to | flood fight. | |
| | | Inspecto | or Comm | nent | | | |
| | | | | | | | |
| | | | | | | | |



View of thick trees on the land side slope (October 2018)

| LM Start | 0.88 | Rating ** | U | Issue No. | | 30 | | | |
|------------------------|---------------------------|--------------|----|------------------------|-----|---------------|--|--|--|
| LM End | 0.95 | Issue Type + | Ma | Location * | | LS | | | |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | | | | |
| Calegory | | | | Start | | End | | | |
| Item | Trim / Thi | n Trees | | 38.238680° | | 38.237638° | | | |
| item | | | | -121.5170 | 10° | -121.516871 ° | | | |
| DWR ID | DWR_RD0554_01_f _ 2016_30 | | | | | | | | |
| | Comment Code | | | | | | | | |

T1 : Trim trees to at least five feet above ground level.

Inspector Comment

These trees along this stretch of levee need to be trimmed from ground up 5.0 feet so the slope can be seen and accessed.

Photo 1 of 1 : FA_2018_RD0554_176_30_20180925_00006.jpg



Looking downstream at the willd growth on the landside levee slope.

| LM Start | 1.00 | Rating ** | М | Issue No. | | 37 | | | |
|------------------------|---------------------------|--------------|----|------------------------|-----|--------------|--|--|--|
| LM End | 1.13 | Issue Type + | Ma | Location * | WS | | | | |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | | | | |
| Calegory | | | | Start | | End | | | |
| Item | Trim / Thi | n Trees | | 38.236991° | | 38.235232° | | | |
| пеш | | | | -121.5168 | 12° | -121.517341° | | | |
| DWR ID | DWR_RD0554_01_s _ 2017_37 | | | | | | | | |
| | Comment Code | | | | | | | | |

T2: Thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

Thin out the trees and remove the wild growth blocking view of the levee section.



Trees on waterside should be thinned and trimmed to allow inspection and access.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

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